BookletChart

Harlem River

(NOAA Chart 12342)



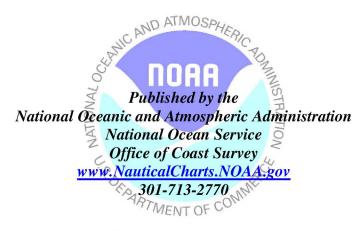


A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ☑ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ☑ Up to date with all Notices to Mariners
- ✓ United States Coast Pilot excerpts

✓ Compiled by NOAA, the nation's chartmaker.





What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart[™]?

This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at http://www.NauticalCharts.NOAA.gov.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 2, Chapter 9 excerpts]

(109) Navigation of the channels in the Port of New York and New Jersey is not restricted by ice. The main channels do not freeze over, and any ice in the smaller waterways is well broken up by tugs and general traffic. Freshwater ice is brought down the Hudson River in large floes during periods of thaws or winter freshets. Occasionally there are large accumulations of ice at Spuyten Duyvil where Harlem River joins the Hudson, and at such times it is difficult for low-powered vessels or

tows to make much headway. Under conditions of strong winds the slips on the exposed side of the channel become packed with drift ice, causing difficulty when maneuvering in the slip or when berthing. During extremely severe winters navigation is interfered with seriously for only short periods of time.

(385) East River is a 14-mile-long tidal strait that connects Long Island Sound with New York Upper Bay and separates the western end of Long Island from the New York mainland. The Sound entrance is between Throgs Neck and Willets Point; the Upper Bay entrance is between The Battery and Governors Island. Hell Gate, about halfway between Throgs Neck and The Battery, is noted for its strong tidal currents. Harlem River extends northward from Hell Gate to the Hudson River. Both sides of the East River, from The Battery to Port Morris, a distance of 9 miles, present an almost continuous line of wharves except where shoals or currents prevent access.

(454) **Harlem River**, which joins East River in Hell Gate between Wards Island and Manhattan Island, extends northward about 7 miles and connects with Hudson River through Spuyten Duyvil Creek. The channel through Harlem River is narrow, tortuous, and navigable only for powered vessels. By taking care to avoid several isolated 11- to 13-foot spots, a depth of about 14 feet can be carried to the Hudson River; the chart is the guide.

(455) Traffic is heavy in Harlem River. Vessels with heights too great to pass under the closed drawbridges should make the passage against the current.

(456) There are more than a dozen draw and fixed bridges over Harlem River. The minimum clearance under closed drawspans is 24 feet except at the railroad bridge over the entrance from Hudson River where it is only 5 feet. Clearance under raised vertical-lift spans exceed 100 feet. (See 117.1 through 117.59 and 117.789, chapter 2, for drawbridge regulations.) Minimum clearances under fixed bridges exceeds 100 feet at the center of the spans.

(457) Four bridges over the Harlem River, the 103rd Street lift bridge, the Triborough lift bridge, the Park Avenue lift bridge, and the Conrail swing bridge at Spuyten Duyvil, at 0.1 mile, 1 mile, and 1.7 miles, and 6.7 miles, respectively, above the entrance, are equipped with radiotelephones. The bridgetenders monitor VHF-FM channel 13; call signs KIL-820, KGW-326, and KA-5059, and KU-9797, respectively. The Conrail bridge is maintained in the open position except for the passage of trains or for maintenance.

(458) The mean range of tide in Harlem River is 5.1 feet in Hell Gate and 3.6 feet at the entrance from Hudson River.

(459) The tidal currents in Harlem River run southward from Hudson River to East River while the east-going current is running in Hell Gate; and the reverse. The south-going current in Harlem River is considered the flood. The times of slack water are subject to variations depending upon freshet conditions in Hudson River. The velocity of the current is 2 knots or more in the narrower parts of the channel. (See the Tidal Current Tables for predictions.)

HEIGHTS

Heights in feet above Mean High Water.

Corrected through NM Jan. 01/05 Corrected through LNM Dec. 21/04

Fixed and floating obstructions, some submerged, may exist within the magenta tinted bridge construction area. Mariners are advised to proceed with caution.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 2 for important supplemental information.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see 11.5 Coast Guard Linkt List. see U.S. Coast Guard Light List.

NOAA WEATHER BADIO BROADCASTS

The NOAA Weather Radio station listed below provides continuous weather broadcasts.
The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations

New York, NY KWO-35 162.55 MHz

FISH TRAP AREAS Boundary lines of fish trap areas are shown

Ige \"\" CAUTION SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine ables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist and when anythoring drap. and cables may exist, and when anchoring, drag-

Covered wells may be marked by lighted or unlighted buoys.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.362" northward and 1.511" eastward to agree with this chart.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

PLANE COORDINATE GRID

(based on NAD 1927)

The New York State Grid is indicated by dotted ticks at 5,000 foot intervals.

CAUTION

Mariners are warned to stay clear of the protective riprap surrounding navigational light structures shown thus:

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

Navigation regulations are published in Chapter 2, U.S Coast Pilot 2. Additions or revisions to Chapter 2 are pub Coast India: Administration of the Commission of Congenier and pull lished in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Con mander, 1st Coast Guard District in Boston, MA or at the Office of the District Engineer, Corps of Engineers

New York, N.Y. Refer to charted regulation section numbers.

Table of Selected Chart Notes

The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) system in the New York Bay and sur-rounding areas. Vessel operating procedures and designated radiotelephone frequencies are published in 33 CFR 181, the U.S. Coast Pilot, and/or the VTS User's Manual. Mariners should consult these sources for applicable rules and

NOTE Z NO-DISCHARGE ZONE, 40 CFR 140

NO-DISCHARGE ZONE, 40 CFR 140
Under the Clean Water Act, Section 312, all vessels operating within a No-Discharge Zone (NDZ) are completely prohibited from discharging any sewage, treated or untreated, into the waters. All vessels with an installed marine sanitation device (MSD) that are navigating, moored, anchored, or docked within a NDZ must have the MSD disabled to prevent the overboard discharge of sewage (treated or untreated) or install a holding tank. Regulations for the NDZ are contained in the U.S. Coast Pilot. Additional information concerning the regulations and requirements may be obtained from the Environmental Protection Agency (EPA) web site: http://www.epa.gov/owow/oceans/regulatory/vessel_sewage/.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, <u>United States Coast Pilot</u>,

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, U.S. Coast Guard, and National Geospatial-Intelligence Agency.

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910 - 3282.

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.) Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical G green		n	Mo morse code	R TR radio tower	
Al alternating	IQ interrupted quick		N nun	Rot rotating	
B black	Iso isophase		OBSC obscured	s seconds	
Bn beacon	LT HO lighthouse		Oc occulting	SEC sector	
C can	M nautical mile		Or orange	St M statute miles	
DIA diaphone	DIA diaphone m minu		Q quick	VQ very quick	
F fixed	MICRO	TR microwave tower	R red	W white	
FI flashing	Mkr marker		Ra Ref radar reflector	WHIS whistle	
			R Bn radiobeacon	Y yellow	
Bottom characteristics:					
Blds boulders	Co coral	gy gray	Oys oysters	so soft	
bk broken	G gravel	h hard	Rk rock	Sh shells	
Cy clay	Grs grass	M mud	S sand	sy sticky	
Miscellaneous:					
AUTH authorized	Obstn	obstruction	PD position doubtful	Subm submerged	
ED existence doubtful PA position approximate			Rep reported		
.21. Wreck rock of	netruction or shop	I swent clear to the	denth indicated		

ED existence doubtful Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
 Rocks that cover and uncover, with heights in feet above datum of soundings.

Place Name (Lat/Long)		Height referred to datum of soundings (MLLW)			
		Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
		feet	feet	feet	feet
East 110th Street	(40°47'N/73°56'W)	5.7	5.4	0.2	-4.0
Washington Bridge	(40°51'N/73°56'W)	4.9	4.6	0.2	-3.5
Broadway Bridge	(40°52'N/73°55'W)	4.3	4.0	0.2	-3.5
Spuyten Duyvil Creek	(40°53'N/73°56'N)	4.3	4.0	0.2	-4.0

(Mar 1996) Latest available information

PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGraftx, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-80-584-4683, http://NouticalCharts.gov, help@NauticalCharts.gov, or OceanGrafix at 1-877-56CHART, http://OceanGrafix.com, or help@CeanGrafix.com help@OceanGrafix.com

Formerly C&GS 274, 1st Ed., Nov. 1898 K

PRINT-ON-DEMAND CHARTS

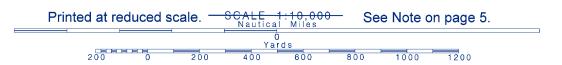
NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Editions are available 5-8 weeks before their release as traditional NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA at 1-800-584-4683, http://NauticalCharts.gov, help@NauticalCharts.gov, or OceanGrafix at 1-877-56CHART. http://oceanGrafix.com. or help@OceanGrafix.com.

ODOME

New York Ui

SOUNDINGS IN FEET Formerly C&GS 274, 1st Ed., Nov. 1898 KAPP 2231 12342 73° 55' 56' JOINS CHART 12345 Spuyten Duyvil 21 Spuyten 50 =1 Duyvii 25 16 16 Wk :38 NO DISCHARGE ZONE 49 (see note Z) 48 52 JOINS CHART 12345





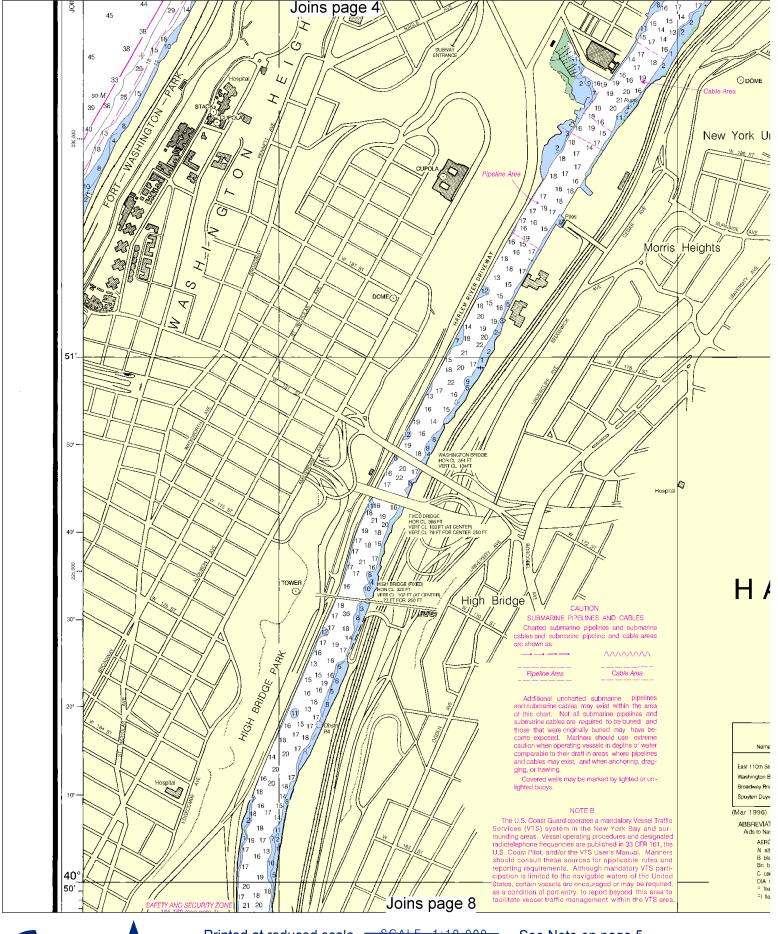
Joins page 6

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to time Chlef, Marrier Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910 - 3282. 54' SOURCE DIAGRAM The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot, A 1990-1995 NOS Surveys full bottom coverage B3 1940-1969 NOS Surveys partial bollom coverage B4 1900-1939 NOS Surveys partial bottom coverage NOS Surveys partial bottom coverage 52 University Heights Landondan Paris

This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:13333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.

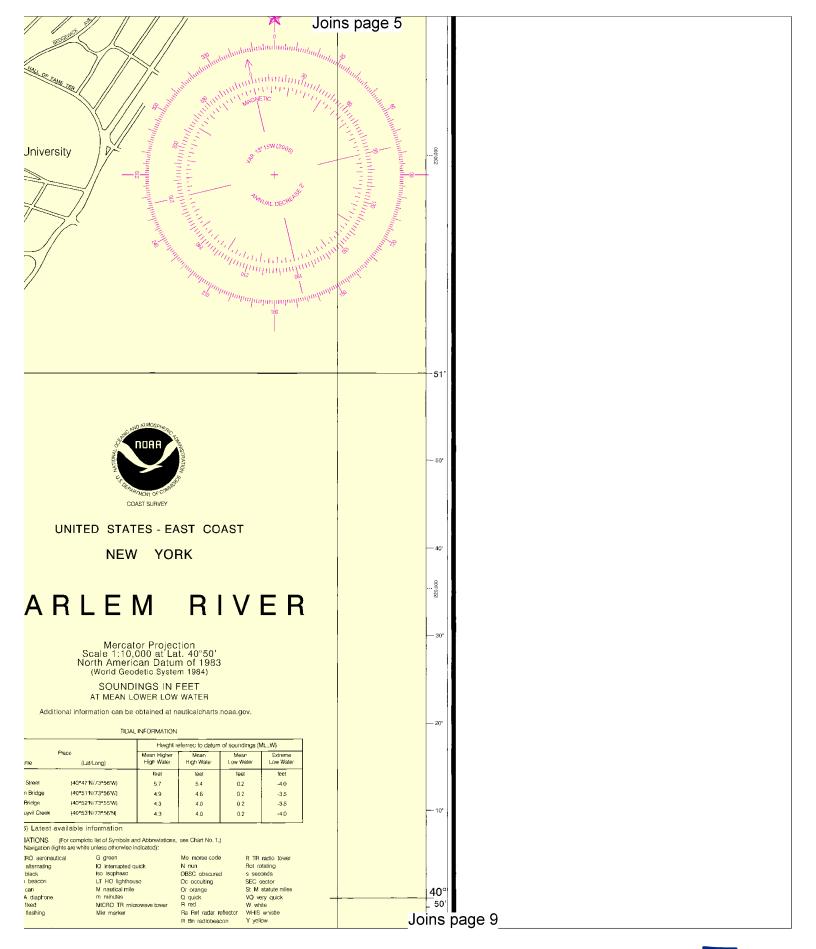
Joins page 7

Jniversity



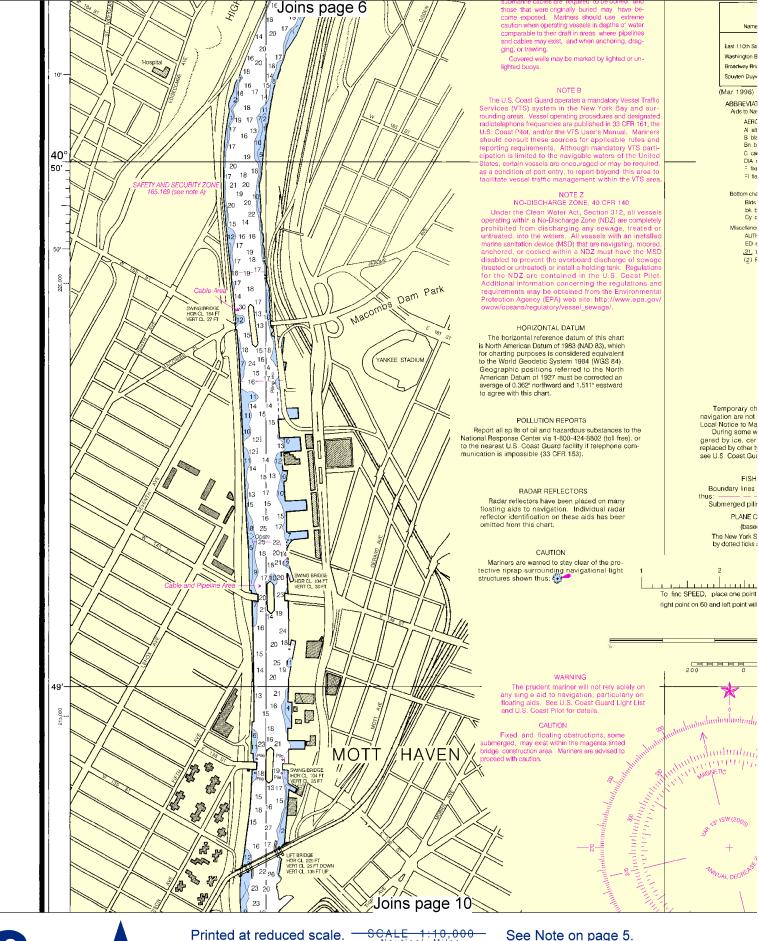




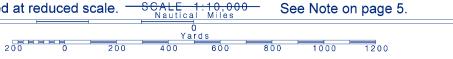


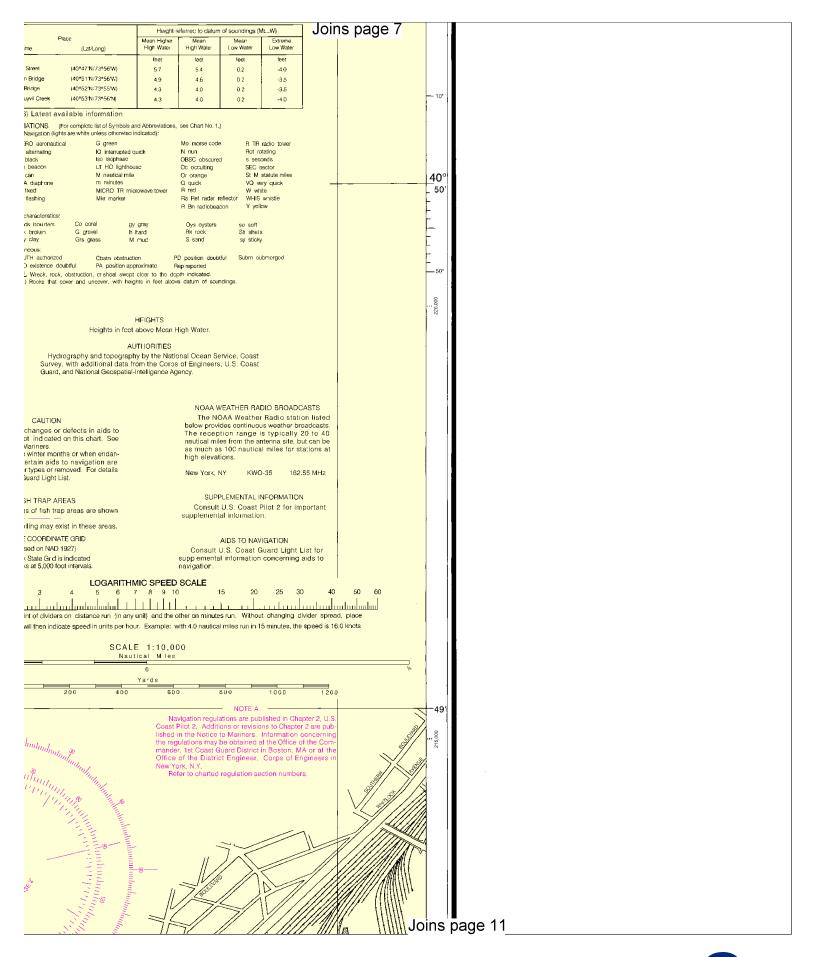
This BookletChart has been updated with: Coast Guard Local Notice To Mariners: 0710 2/16/2010, NGA Weekly Notice to Mariners: 0910 2/27/2010,

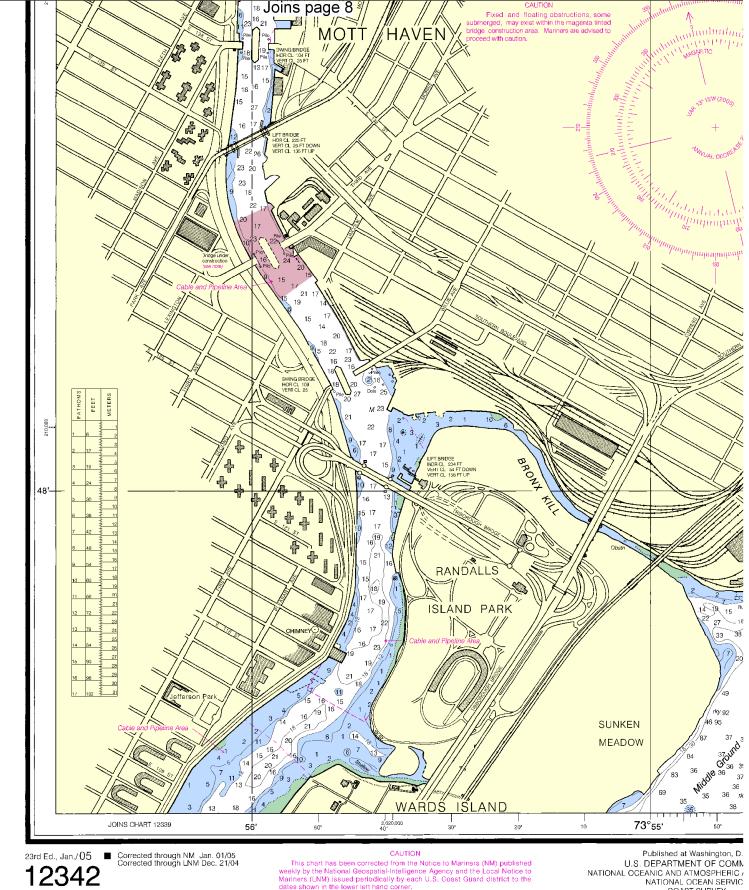
Canadian Coast Guard Notice to Mariners: 1209 12/25/2009.







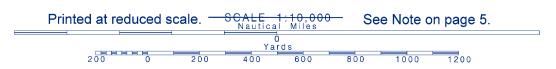


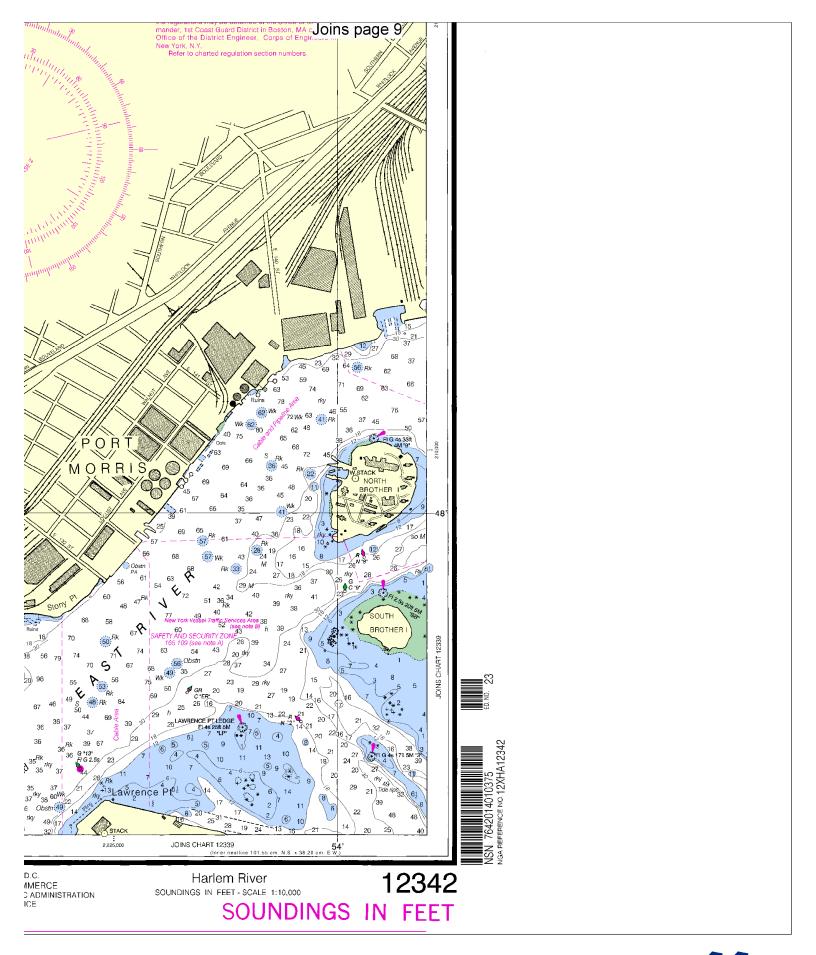


This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

U.S. DEPARTMENT OF COMM NATIONAL OCEANIC AND ATMOSPHERIC / NATIONAL OCEAN SERVIC COAST SURVEY







EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls

to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

- 1. Make sure radio is on.
- 2. Select Channel 16.
- 3. Press/Hold the transmit button.
- 4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- 6. Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS!!

Mobile Phones – Call 911 for water rescue.

Coast Guard Group Activities New York – 718-354-4120

Coast Guard Kings Point – 516-466-7135

Coast Guard New York - 718-354-4101

New York State Police – 877-672-4911

New York City Police - 718-765-4100

Coast Guard Atlantic Area Cmd – 757-398-6390

<u>NOAA Weather Radio</u> – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENCs®) -

ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNCs[™]) –

RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts[™] – BookletCharts[™] are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketChartsTM – PocketChartsTM are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot® – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm.

Internet Sites: www.Noa.gov, <a href="